

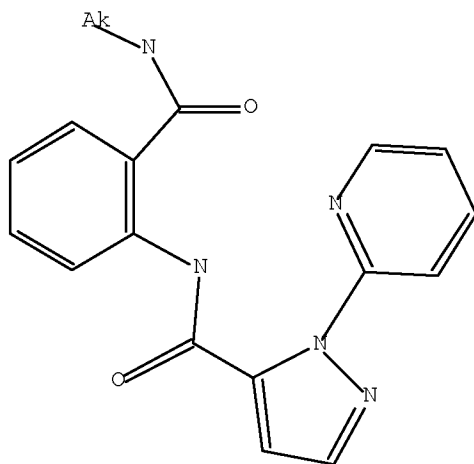
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L1 STRUCTURE UPLOADED

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E DELTAMETHRIN/CN  
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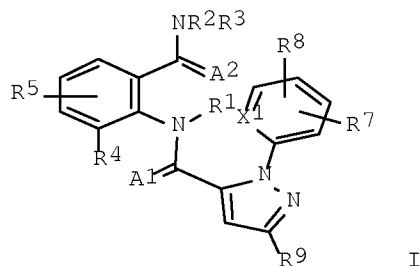
FILE 'HCAPLUS' ENTERED AT 14:30:03 ON 31 DEC 2009

L12 464 S L3  
L13 137 S L12 AND (L4-L11)  
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L15 1 S L14 AND (SYNERG? OR ENHANCE?)

L15 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Synergistic insecticidal combinations comprising anthranilic acid amides and pyrethroids.

GI



AB Synergistic insecticidal combinations comprise anthranilic acid amides I [A1, A2 = O or S; X1 = N or (un)substituted NH; R1 = H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl; R2 = H, alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, etc.; R3 = H, (un)substituted alkyl, alkenyl, etc.; R2NR3 = ring; R4 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)cycloalkyl, (un)substituted Ph, benzyl, PhO, etc; R5, R8 = H, halo, (un)substituted (halo)alkyl, etc.; R7 = H, halo (halo)alkyl, (halo)alkoxy, etc.; R9 = haloalkyl, haloalkoxy, haloalkylsulfinyl or halo] and pyrethroids.

ACCESSION NUMBER: 2005:470211 HCAPLUS Full-text

DOCUMENT NUMBER: 143:2640

TITLE: Synergistic insecticidal combinations comprising anthranilic acid amides and

pyrethroids.

INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer, Ruediger;

Thielert, Hungenberg, Heike; Andersch, Wolfram;

Wolfgang; Kraus, Anton

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 64 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

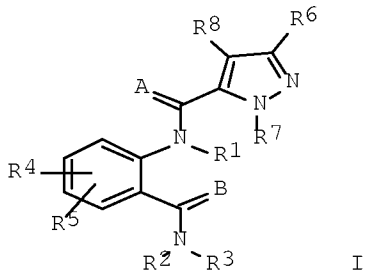
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005048713	A1	20050602	WO 2004-EP12330	
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 DE 102004021564 A1 20050707 DE 2004-102004021564  
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 AU 2004290502 A1 20050602 AU 2004-290502  
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 EP 1686859 A1 20060809 EP 2004-791083  
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 CN 1882245 A 20061220 CN 2004-80033692  
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 BR 2004016560 A 20070123 BR 2004-16560  
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 JP 2007510683 T 20070426 JP 2006-538722  
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 IN 2006DN02516 A 20070406 IN 2006-DN2516  
 20060504 <--  
 MX 2006005262 A 20060720 MX 2006-5262  
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 US 20080070863 A1 20080320 US 2007-579076  
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 DE 2004-102004021564A  
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 WO 2004-EP12330 W  
 20041030

L16 7 S L14 NOT L15

L16 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Method for controlling particular insect pests by applying  
 anthranilamide  
 compounds  
 GI



AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.

ACCESSION NUMBER: 2003:154154 HCAPLUS Full-text  
DOCUMENT NUMBER: 138:200331  
TITLE: Method for controlling particular insect pests  
by  
applying anthranilamide compounds  
INVENTOR(S): Lahm, George Philip; McCann, Stephen  
Frederick; Patel,  
Kanu Maganbhai; Selby, Thomas Paul; Stevenson,  
Thomas  
Martin  
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
SOURCE: PCT Int. Appl., 150 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 4  
PATENT INFORMATION:

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WO 2003015518	A1	20030227	WO 2002-US25613	
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OM, PH,  
 TT, TZ,  
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 CA 2454302 A1 20030227 CA 2002-2454302  
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 AU 2002355951 A1 20030303 AU 2002-355951  
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 AU 2002355951 B2 20071206  
 EP 1416796 A1 20040512 EP 2002-752809  
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 HU 2004001043 A2 20040928 HU 2004-1043  
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 HU 2004001043 A3 20051128  
 BR 2002012187 A 20041005 BR 2002-12187  
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 CN 1541063 A 20041027 CN 2002-815930  
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 JP 2004538327 T 20041224 JP 2003-520289  
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 JP 3689817 B2 20050831  
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 ZA 2004000034 A 20050803 ZA 2004-34  
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 RU 2262231 C1 20051020 RU 2004-107513  
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 EP 1944304 A1 20080716 EP 2008-6481  
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 20031222 <--  
 US 20050075372 A1 20050407 US 2004-483115  
 20040107 <--  
 IN 2004MN00013 A 20070309 IN 2004-MN13  
 20040108 <--  
 MX 2004001322 A 20040520 MX 2004-1322  
 20040211 <--  
 KR 847202 B1 20080717 KR 2004-702163  
 20040213 <--  
 JP 2005041880 A 20050217 JP 2004-258923  
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 JP 4334445 B2 20090930

IN 2005MN00438	A	20051202	IN 2005-MN438	
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US 20080275061	A1	20081106	US 2008-141170	
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			EP 2002-750482	A3
20020813 <--				
			JP 2003-520290	A3
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20040107				
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20040108				

L17 E FUNKE CHRIS?/AU  
 L18 67 S E145,E149  
 L19 15 S L17 AND L3  
 L20 6 S L18 AND (PY<2004 OR AY<2004 OR PRY<2004)  
 L21 6 S L19 AND (SYNERG? OR ENHANCE?)  
 L21 5 S L20 NOT L15

L21 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Synergistic insecticidal compositions comprising anthranilic acid amides  
 AB Synergistic insecticidal compns. comprise anthranilic acid amides and other insecticides selected from (thio)phosphates and/or carbamates.

ACCESSION NUMBER: 2005:523210 HCAPLUS Full-text  
 DOCUMENT NUMBER: 143:21469  
 TITLE: Synergistic insecticidal compositions comprising anthranilic acid amides  
 INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer, Ruediger; Hungenberg, Heike; Andersch, Wolfram;  
 Thielert, Wolfgang; Kraus, Anton  
 PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 62 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005053406	A1	20050616	WO 2004-EP13197	
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SL, SY,				
ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,				
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PT, RO,				
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DE 102004021565	A1	20050630	DE 2004-102004021565	
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AU 2004294711	A1	20050616	AU 2004-294711	
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EP 1691611	A1	20060823	EP 2004-798022	
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CN 1889838	A	20070103	CN 2004-80035994	
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BR 2004017322	A	20070327	BR 2004-17322	
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JP 2007513102	T	20070524	JP 2006-541832	
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IN 2006DN02655	A	20070518	IN 2006-DN2655	
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US 20070142327	A1	20070621	US 2006-581346	
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KR 2006121262	A	20061128	KR 2006-713185	
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KR 870171	B1	20081124		
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PRIORITY APPLN. INFO.:			DE 2003-10356549	A
20031204 <--				
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WO 2004-EP13197 W

20041120

KR 2006-713185 A3

20060630

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 143:21469

IC ICM A01N043-56

ICS A01N057-28; A01N057-20; A01N057-16; A01N057-14; A01N057-12;  
A01N047-24; A01N047-22; A01N047-18; A01N047-12

CC 5-4 (Agrochemical Bioregulators)

ST synergism insecticide compn anthranilic acid amide

IT Insecticides

(synergistic; compns. comprising anthranilic acid amides)

IT 852994-75-3

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic insecticidal composition)

IT 52-68-6D, Trichlorfon, mixts. with anthranilic acid amides 55-38-9D,

Fenthion, mixts. with anthranilic acid amides 56-38-2D,

Parathion,

mixts. with anthranilic acid amides 60-51-5D, Dimethoate, mixts.

with

anthranilic acid amides 62-73-7D, mixts. with anthranilic acid

amides

63-25-2D, Carbaryl, mixts. with anthranilic acid amides 86-50-

0D,

Azinphos-methyl, mixts. with anthranilic acid amides 114-26-1D,

Propoxur, mixts. with anthranilic acid amides 121-75-5D,

Malathion,

mixts. with anthranilic acid amides 122-14-5D, Fenitrothion,

mixts. with

anthranilic acid amides 141-66-2D, Dicrotophos, mixts. with

anthranilic

acid amides 298-00-0D, Parathion-methyl, mixts. with anthranilic

acid

amides 298-02-2D, Phorate, mixts. with anthranilic acid amides

298-04-4D, Disulfoton, mixts. with anthranilic acid amides 301-

12-2D,

Oxydemeton-methyl, mixts. with anthranilic acid amides 333-41-

5D,

Diazinon, mixts. with anthranilic acid amides 470-90-6D,

Chlorfenvinphos, mixts. with anthranilic acid amides 563-12-2D,

Ethion,

mixts. with anthranilic acid amides 732-11-6D, Phosmet, mixts.

with

anthranilic acid amides 950-37-8D, Methidathion, mixts. with

anthranilic

acid amides 2032-65-7D, Methiocarb, mixts. with anthranilic acid

amides

2310-17-0D, Phosalone, mixts. with anthranilic acid amides 2597-

03-7D,

Phenthoate, mixts. with anthranilic acid amides 2921-88-2D,

Chlorpyrifos, mixts. with anthranilic acid amides 6923-22-4D,

Monocrotophos, mixts. with anthranilic acid amides 7786-34-7D,

Mevinphos, mixts. with anthranilic acid amides 10265-92-6D,

Methamidophos, mixts. with anthranilic acid amides 13171-21-6D,



Phosphamidon, mixts. with anthranilic acid amides 14816-18-3D,  
Phoxim,  
mixts. with anthranilic acid amides 16752-77-5D, Methomyl,  
mixts. with  
anthranilic acid amides 18854-01-8D, Isoxathion, mixts. with  
anthranilic  
acid amides 22259-30-9D, Formetanat, mixts. with anthranilic  
acid amides  
23103-98-2D, Pirimicarb, mixts. with anthranilic acid amides  
23135-22-0D, Oxamyl, mixts. with anthranilic acid amides 23422-  
53-9D,  
Formetanate hydrochloride, mixts. with anthranilic acid amides  
24017-47-8D, Triazophos, mixts. with anthranilic acid amides  
29232-93-7D, Pirimiphos-methyl, mixts. with anthranilic acid  
amides  
30560-19-1D, Acephate, mixts. with anthranilic acid amides  
34643-46-4D,  
Prothiophos, mixts. with anthranilic acid amides 41198-08-7D,  
Profenophos, mixts. with anthranilic acid amides 59669-26-0D,  
Thiodicarb, mixts. with anthranilic acid amides 72490-01-8D,  
Fenoxycarb,  
mixts. with anthranilic acid amides 96182-53-5D, Tebupirimphos,  
mixts.  
with anthranilic acid amides  
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic insecticidal compns.)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE  
THIS RECORD

(5 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE  
FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L21 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Synergistic insecticidal and acaricidal compositions comprising  
anthranilic acid amines

AB Synergistic insecticidal and acaricidal compns. comprise cyclic  
ketoenols or other insecticides (amitraz, buprofezin, triazamate,  
pymetrozine, pyriproxifen, flonicamid or pirimicarb) and addnl.  
insecticides from the group of anthranilic acid amines.

ACCESSION NUMBER: 2005:523209 HCAPLUS Full-text

DOCUMENT NUMBER: 143:21468

TITLE: Synergistic insecticidal and acaricidal  
compositions comprising anthranilic acid  
amines

INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer,  
Ruediger; Hungenberg, Heike; Andersch,  
Wolfram;

Thielert, Wolfgang; Kraus, Anton

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005053405	A1	20050616	WO 2004-EP13198	
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KZ, LC,				
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,				
NA, NI,				
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,				
SL, SY,				
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ZM, ZW				
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EP 1691608	A1	20060823	EP 2004-798023	
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CN 2004-80036176 A3

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WO 2004-EP13198 W

20041120

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 143:21468

IC ICM A01N043-00

CC 5-4 (Agrochemical Bioregulators)

ST synergism insecticide acaricide compn anthranilic acid amine

IT Acaricides

Insecticides

(synergistic; compns. comprising anthranilic acid amines)

IT 95737-68-1D, Pyriproxifen, mixts. with anthranilic acid amines

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(Pyriproxifen; synergistic insecticidal and acaricidal compns.)

IT 853058-37-4 853058-38-5 853058-39-6

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(synergistic insecticidal and acaricidal composition)

IT 23103-98-2D, Pirimicarb), mixts. with anthranilic acid amines

33089-61-1D, (Amitraz, mixts. with anthranilic acid amines

69327-76-0D,

Buprofezin, mixts. with anthranilic acid amines 112143-82-5D,

Triazamate, mixts. with anthranilic acid amines 123312-89-0D,

Pymetrozine, mixts. with anthranilic acid amines 158062-67-0D,

Flonicamid, mixts. with anthranilic acid amines 382608-10-8D,

mixts.

with anthranilic acid amines

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(synergistic insecticidal and acaricidal compns.)

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE

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(3 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

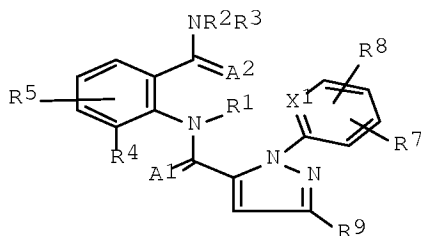
RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L21 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Synergistic insecticidal compositions comprising anthranilic acid amides

GI



I

AB The invention relates to synergistic insecticide combinations comprising anthranilic acid amides I [A1, A2 = O or S; X1 = N or (un)substituted CH; R1 = H, (un)substituted alkyl alkenyl, alkynyl, etc.; R2 = H, (cyclo)alkyl, alkenyl, alkynyl, alkoxy, alkylamino, etc.; R3 = H, (un)substituted alkyl, alkenyl, alkynyl, Ph, PhO, etc.; R2NR3 = ring; R4 = H, alkyl, alkenyl, alkynyl, etc.; R5, R8 = h, halo, (un)substituted (halo)alkyl, NH2, SH, etc.; R7 = H, halo, (halo)alkyl, (halo)alkoxy, etc.; R9 = halo, haloalkyl, haloalkoxy or halosulfinyl] and another insecticides.

ACCESSION NUMBER: 2005:523202 HCAPLUS Full-text

DOCUMENT NUMBER: 143:39512

TITLE: Synergistic insecticidal compositions comprising anthranilic acid amides

INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer, Ruediger; Hungenberg, Heike; Andersch,

Wolfram;

Thielert, Wolfgang; Kraus, Anton

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005053393	A2	20050616	WO 2004-EP13196	
20041120 <--				
WO 2005053393	A3	20050804		
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CN 1889837	A	20070103	CN 2004-80035851
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OTHER SOURCE(S): MARPAT 143:39512			
IC	ICM A01N		
CC	5-4 (Agrochemical Bioregulators)		
ST	synergism insecticide compn anthranilic acid amide		
IT	Trichogramma		
	Verticillium lecanii		
	(mixts. with anthranilic acid amides; synergistic insecticidal compns.)		
IT	Insecticides		
	(synergistic; compns. comprising anthranilic acid amides)		
IT	201593-84-2D, DBI-3204, mixts. with anthranilic acid amides		
	RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)		
	(bistrifluron; synergistic insecticidal compns.)		
IT	853072-26-1	853072-27-2	853072-28-3
	853072-29-4	853072-30-7	853072-31-8
	853072-32-9		
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	(synergistic insecticidal composition)		
IT	11141-17-6D, Azadirachtin, mixts. with anthranilic acid amides		
	35367-38-5D, Diflubenzuron, mixts. with anthranilic acid amides		
	63837-33-2D, Diofenolan, mixts. with anthranilic acid amides		
	64628-44-0D, Triflumuron, mixts. with anthranilic acid amides		
	66215-27-8D, Cyromazine, mixts. with anthranilic acid amides		
	71422-67-8D, Chlorfluazuron, mixts. with anthranilic acid amides		
	83121-18-0D, Teflubenzuron, mixts. with anthranilic acid amides		
	86479-06-3D, Hexaflumuron, mixts. with anthranilic acid amides		
	101463-69-8D, Flufenoxuron, mixts. with anthranilic acid amides		
	103055-07-8D, Lufenuron, mixts. with anthranilic acid amides		

112226-61-6D, Halofenozide, mixts. with anthranilic acid amides  
 112410-23-8D, Tebufenozide, mixts. with anthranilic acid amides  
 116714-46-6D, Novaluron, mixts. with anthranilic acid amides  
 119791-41-2D, Emamectin, mixts. with anthranilic acid amides  
 120068-37-3D, Fipronil, mixts. with anthranilic acid amides  
 143807-66-3D, Chromafenozide, mixts. with anthranilic acid amides  
 161050-58-4D, Methoxyfenozide, mixts. with anthranilic acid amides  
 173584-44-6D, Indoxacarb, mixts. with anthranilic acid amides  
 181587-01-9D, Ethiprole, mixts. with anthranilic acid amides

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic insecticidal compns.)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE  
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(2 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE  
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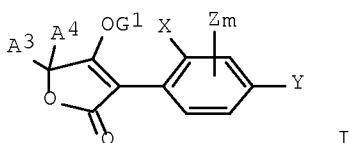
RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L21 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Synergistic insecticidal and acaricidal compositions comprising  
 anthranilic acid amides

GI



AB Synergistic insecticidal and acaricidal compns. comprise keto  
 enols I [X = (halo)alkyl, Br or alkoxy; Y = H, (halo)alkyl, halo  
 or alkoxy; Z = alkyl, halo or alkoxy; m = 0,1-3; A3 = H,  
 (halo)alkyl, (halo)alkenyl, (halo)alkynyl, etc.; A4 = H, alkyl or  
 alkoxy; A3CA4 = cycle; G1 = H, COR, CO2R1, etc.; R = (halo)alkyl,  
 (halo)alkenyl, (halo)alkoxyalkyl, (halo)alkylthioalkyl,  
 (un)substituted Ph, etc.; R1 = (halo)alkyl, (halo)alkenyl,  
 (halo)alkynyl or (halo)polyalkoxyalkyl] or any of a large number of  
 known insecticides and acaricides on one hand and anthranilic acid  
 amides on the other hand.

ACCESSION NUMBER: 2005:470210 HCAPLUS Full-text

DOCUMENT NUMBER: 143:2639

TITLE: Synergistic insecticidal and acaricidal  
 compositions comprising anthranilic acid  
 amides

INVENTOR(S): Funke, Christian; Bretschneider, Thomas;  
 Fischer, Reiner; Fischer, Ruediger;

Hungenberg, Heike;

Andersch, Wolfram; Thielert, Wolfgang; Kraus,

Anton

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 79 pp.

DOCUMENT TYPE:                   CODEN: PIXXD2  
 LANGUAGE:                        Patent  
 FAMILY ACC. NUM. COUNT:       German  
 PATENT INFORMATION:             1

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WO 2005048712	A1	20050602	WO 2004-EP12329	
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AT 425666	T	20090415	AT 2004-791082	
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ZA 2006003762	A	20071227	ZA 2006-3762
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KR 2006121159	A	20061128	KR 2006-711360
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KR 858869	B1	20080917	
US 20080027114	A1	20080131	US 2007-578512
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PRIORITY APPLN. INFO.:			DE 2003-10353281 A
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20041030			

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
OTHER SOURCE(S): MARPAT 143:2639

IC ICM A01N043-56  
ICS A01N055-04; A01N053-00; A01N047-38; A01N047-34; A01N047-30;  
A01N047-24; A01N047-04; A01N043-90; A01N043-76; A01N043-713;  
A01N043-58; A01N043-54; A01N043-36; A01N043-24; A01N043-22;  
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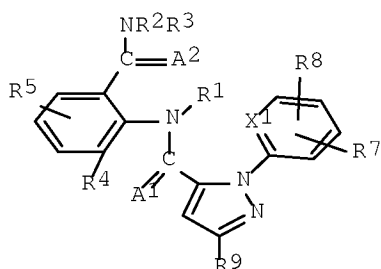
CC 5-4 (Agrochemical Bioregulators)  
ST synergism insecticide acaricide anthranilic acid amide  
IT Acaricides  
Insecticides  
(synergistic; compns. comprising anthranilic acid amides)

IT 115-29-7D, Endosulfan, mixts. with anthranilic acid amides 115-32-2D,  
Dicofol, mixts. with anthranilic acid amides 116-29-0D,  
Tetradifon,  
mixts. with anthranilic acid amides 731-27-1D, Tolyflfluanid,  
mixts. with  
anthranilic acid amides 2312-35-8D, Propargite, mixts. with  
anthranilic  
acid amides 2439-01-2 13121-70-5D, Cyhexatin, mixts. with  
anthranilic  
acid amides 13356-08-6D, Fenbutatin oxide, mixts. with  
anthranilic acid  
amides 18181-80-1D, Bromopropylate, mixts. with anthranilic acid  
amides  
41083-11-8D, Azocyclotin, mixts. with anthranilic acid amides  
51596-10-2D, Milbemectin, mixts. with anthranilic acid amides  
57960-19-7D, Acequinocyl, mixts. with anthranilic acid amides  
65691-00-1D, Triarathene, mixts. with anthranilic acid amides  
70288-86-7D, Ivermectin, mixts. with anthranilic acid amides  
74115-24-5D, Clofentezine, mixts. with anthranilic acid amides  
78587-05-0D, Hexythiazox, mixts. with anthranilic acid amides  
80060-09-9D, Diafenthiuron, mixts. with anthranilic acid amides  
82657-04-3D, Bifenthrin, mixts. with anthranilic acid amides  
96489-71-3D, Pyridaben, mixts. with anthranilic acid amides  
101463-69-8D, Flufenoxuron, mixts. with anthranilic acid amides  
105779-78-0D, Pyrimidifen, mixts. with anthranilic acid amides  
119168-77-3D, Tebufenpyrad, mixts. with anthranilic acid amides  
120928-09-8D, Fenazaquin, mixts. with anthranilic acid amides



122453-73-0D, Chlorfenapyr, mixts. with anthranilic acid amides  
 134098-61-6D, Fenpyroximate, mixts. with anthranilic acid amides  
 148477-71-8D, mixts. with anthranilic acid amides 149877-41-8D,  
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 852329-01-2 852329-02-3D, mixts. with anthranilic acid amides  
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 mixts.  
 with anthranilic acid amides  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic insecticidal and acaricidal composition)  
 OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE  
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 (1 CITINGS)  
 REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE  
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 RECORD. ALL CITATIONS AVAILABLE IN THE  
 RE FORMAT

L21 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2009 ACS on STN  
 TI Synergistic insecticidal compositions comprising nicotinic  
 receptor agonists and antagonists and anthranilic acid amides  
 GI



I

AB Synergistic insecticidal compns. comprising nicotinic receptor  
 agonists and antagonists RNACX:XE [R= H, (un)substituted acyl,  
 alkyl, aryl, etc.; A = H, acyl, alkyl, aryl, etc; E = electron  
 receptor; X = CH or N; Z = alkyl, OR, SR or NR2; ANCZ = cycle] and  
 anthranilic acid amides I [A1, A2 = O or S; X1 = N or C10; R1 =  
 H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl, the  
 substituents being R6, halo, CN, etc.; R2 = H, alkyl, alkenyl,  
 alkynyl, cycloalkyl, alkoxy, etc.; R3 = H, alkyl, alkenyl, etc.;  
 R2NR3 = ring; R4 = H, (halo)alkyl, (halo)alkenyl, etc.; R5, R8 =  
 H, halo, (un)substituted (halo)alkyl, etc.; R6 = CH(:E1), LCH(E1),  
 etc.; E1 = O, S, NH, N:S:O, N(NO)2, etc.; L = O, S, NH, etc.; R7 =  
 H, halo, (halo)alkyl, (halo)alkoxy, etc.; R9 = halo, haloalkyl,  
 haloalkoxy or halosulfinyl].

ACCESSION NUMBER: 2005:470209 HCAPLUS Full-text  
 DOCUMENT NUMBER: 143:2638  
 TITLE: Synergistic insecticidal compositions  
 comprising nicotinic receptor agonists and  
 antagonists  
 and anthranilic acid amides  
 INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer,  
 Ruediger; Hungenberg, Heike; Andersch,  
 Wolfram;  
 Thielert, Wolfgang; Kraus, Anton  
 PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 71 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
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L26	0 S L25 NOT L21
	E FISCHER RUDIGER?/AU
L27	111 S E170,E180
L28	12 S L27 AND L3
L29	6 S L28 AND (PY<2004 OR AY<2004 OR PRY<2004)
L30	5 S L29 NOT L15
L31	0 S L30 NOT L21
	E HUNGENBERG HEIKE?/AU
L32	123 S E181-E182
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L34	27 S L33 AND (SYNERG? OR ENHANCE?)
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L37	115 S E194
L38	20 S L37 AND L3
L39	6 S L38 AND (PY<2004 OR AY<2004 OR PRY<2004)
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L42	111 S E206
L43	17 S L42 AND (PY<2004 OR AY<2004 OR PRY<2004)
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L45	6 S L44 AND (SYNERG? OR ENHANCE?)

L46	0 S L45 NOT (L15 OR L21)
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L47	31 S E217-E218
L48	13 S L47 AND (PY<2004 OR AY<2004 OR PRY<2004)
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